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TITLE: CONDUCTIVE PASTE
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INVENTOR-INFORMATION:

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ABSTRACT:

PURPOSE: To provide good conductivity by forming specified needle-like projected parts on a metal powder.

CONSTITUTION: A conductive paste with a specified conductivity is obtained by properly adjusting the ratio of a metal powder having needle-like projected parts with 1μm or smaller in diameter and 50μm or shorter in length on the surface and a resin. As the metal powder, for example, silver, gold, palladium, copper, nickel, silver-coated nickel, silver-coated copper, and powder of alloys of these metals are preferable and two or more of them may be employed. Washing of the metal powder surface with water is carried out to remove ions of impurities and then drying is carried out, and further washing with an alkali and with water and drying are repeated. After that, the metal powders are kept still at 40-90°C and 80-90%RH (relative humidity) in a thermostat bath for several days to a couple of weeks to give metal powders having needle-like projected parts. A conductive paste having good conductivity can be obtained by producing the paste with the metal powder and resin such as epoxy resin, acrylic resin, etc.

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